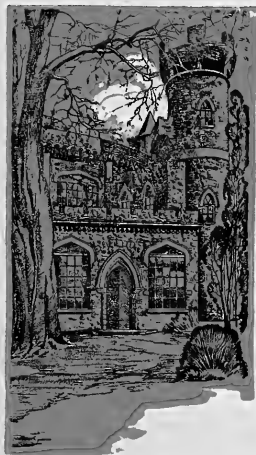


MIDDLESEX UNIVERSITY



SCHOOL OF MEDICINE

CATALOGUE

1940-1941

WALTHAM

MASSACHUSETTS

STATEMENT

The Medical Catalogue, published well in advance of the school year to which it applies, contains a condensed record of the faculty of the School of Medicine, and of the courses of instruction; and announcements relative to the calendar, requirements for admission and graduation, fees, examinations, and rules for student conduct. It also contains a brief reference to the Premedical Course, offered by the Junior College.

The provisions of this catalogue are not intended to be taken as a basis for the contractual relationship arising between the University and its students. The purpose of the Officers and Trustees is continuously to improve the methods and standards of instruction, and they reserve to themselves the right and responsibility of altering at any time the curriculum, requirements, teaching personnel, fees, and rules, as circumstances may require, or as they may deem to be to the best advantage of the University.

MIDDLESEX UNIVERSITY

*Catalogue
of the
School of Medicine*



1940-1941

WALTHAM

MASSACHUSETTS

University Calendar

1940

July 8	Monday	Summer session begins.
Aug. 17	Saturday	Summer session ends.
Sept. 9 to 14	Monday to Saturday	First installment of tuition due.
Sept. 16 to 21	Monday to Saturday	Examinations for the removal of conditions.
Sept. 23	Monday	Fall Session opens.
Oct. 12	Saturday	Columbus Day. A holiday.
Nov. 11	Monday	Armistice Day. A holiday.
Nov. ?	(To be announced)	Thanksgiving Recess.
Dec. 16 to 21	Monday to Saturday	Second installment of tuition due.
Dec. 23, 1940	Monday	Christmas Vacation begins

1941

Jan. 6	Monday	Classes resumed
Feb. 3	Monday	Second Semester begins.
Feb. 22	Saturday	Washington's Birthday. A holiday.
Mar. 24 to 29	Monday to Saturday	Third installment of tuition due.
Mar. 24 to 29	Monday to Saturday	Spring recess
Mar. 31	Monday	Classes resumed.
April 19	Saturday	Patriot's Day. A holiday.
May 30	Friday	Memorial Day. A holiday.
June 7	Saturday	Seniors' Class Day.
June 8	Sunday	Baccalaureate Service.
June 9	Monday	Commencement Exercises.

The Trustees of Middlesex University

President

C. RUGGLES SMITH, A.B., A.M., LITT.B., LL.B.

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Dean of the Premedical Faculty

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HAROLD M. KAPLAN, Ph.D.

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DOROTHY McLAUGHLIN

Assistant to the Registrar

JULIA O'LEARY

Director of Aeronautics

GEORGE HOLLIS BOYNTON, M.D.

Faculty of The School of Medicine

THE list of faculty, comprising the professors, associate-professors, and instructors, in the School of Medicine, includes those engaged in teaching during the session 1939-1940, and those who have been appointed up to January 1, 1940, for the session 1940-1941. The complete list of faculty appointments for the 1940-1941 school year will not be available until September, 1940. It is anticipated that a substantial number of important additions to the faculty roster will be announced during the intervening period.

Anatomy, Histology, and Embryology

JOHN HALL SMITH *Professor Emeritus*
M.D., University of Louisville

WILLIAM M. KONIKOV *Professor of Anatomy*
A.B., Harvard University; M.D., Boston University

JACQUES W. GOLDNER *Professor of Histology and Embryology*
M.D., University of Cluj

LOUIS BERGMANN *Associate Professor of Anatomy*
M.D., University of Vienna

JULIUS RUBIN *Instructor in Anatomy*
M.D., Middlesex University

VINCENT W. SENA *Instructor in Surgical Anatomy*
B.S., Columbia University; M.D., Middlesex University

J. STANLEY CARP *Assistant in Histology*

Physiology

HAROLD M. KAPLAN *Professor of Physiology*
A.B., Dartmouth College; Ph.D., Harvard University

KARL SINGER *Associate Professor of Physiology*
M.D., University of Vienna

HARRY W. SIEGEL *Assistant in Physiology*
A.B., Harvard University

Biochemistry

DAVID L. DAVIDSON *Professor of Biochemistry*
Sc.B., Sc.M., Ph.D., Brown University

SOLOMON H. GORDON *Associate Professor of Biochemistry*
B.S., Massachusetts State College; Ed. M., Boston University

BENJAMIN HECHT *Instructor in Biochemistry*
B.S., Ph.C., Massachusetts College of Pharmacy
M.S., University of Wisconsin

Pharmacology

HANS MAUTNER *Professor of Pharmacology*
M.D., University of Vienna

ALDO LUISADA *Associate Professor of Pharmacology*
M.D., University of Florence

SOLOMON P. BIALOW *Instructor in Pharmacology*
Ph.G., Brooklyn College of Pharmacy;
M.D., Middlesex University

LOUIS JAMES BADIA *Assistant in Pharmacology*
Ph.G., B.S., Fordham University

I. SHERMAN TOLPIN *Assistant in Pharmacology*
Ph.G., Massachusetts College of Pharmacy
A.B., B.S., University of Southern California

Pathology, Bacteriology, and Immunology

KARL LOWENTHAL *Professor of Pathology*
M.D., University of Freiburg

OTOKAR J. POLLAK *Professor of Bacteriology and Immunology*
M.D., D.Sc., Masaryk University

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

FRANCIS W. HOOPER *Instructor in Pathology*
A.B., Harvard University; M.D., Boston University

FRANCIS LICATA *Instructor in Public Health*
M.D., Middlesex University

MEYER PERLSTEIN *Instructor in Bacteriology*
B.S., Columbia University; M.D., Middlesex University

I. JACQUES YETWIN *Assistant in Bacteriology*
B.S., Rutgers University; M.S., University of Chicago

KATHERINE G. KELLEY *Technician in Pathology*
A.B., Emmanuel College

General Medicine

LEO HESS *Professor of Medicine*
M.D., University of Vienna

RICHARD WAGNER *Professor of Pediatrics*
M.D., University of Vienna

ISIDORE GREEN *Professor of Psychiatry*
M.D., Tufts College

EDWARD J. LEVENSON *Associate Professor of Medicine*
A.B., Harvard University; M.D., University of Rochester

WILLY OPPLER *Associate Professor of Neurology*
M.D., University of Breslau

T. VINCENT CAMPAGNA *Instructor in Medicine*
M.D., Middlesex University

SAMUEL KAMBERG *Instructor in Roentgenology*
M.D., Tufts College

ISRAEL KAHALAS *Instructor in Medicine*
M.D., Tufts College

ANGELO L. MAIETTA *Instructor in Medicine*
M.D., Middlesex University

LOUIS FELDMAN *Instructor in Physical Therapy*
M.D., Tufts College

HARRY R. BOLAN *Instructor in Clinical Medicine*
A.B., Harvard University; M.D., Middlesex University

MARVIN M. GOULD *Instructor in Tropical Medicine*
M.D., Tulane University

HENRY DIEFENBACH *Instructor in Clinical Medicine*
A.B., Columbia University; M.D., Middlesex University

ALDO LUISADA *Lecturer in Cardiology*
M.D., University of Florence

HORATIO S. CARD *Instructor in Clinical Medicine*
A.B., A.M., M.D., Bowdoin College

KARL SINGER *Lecturer in Hematology*
M.D., University of Vienna

ROBERT A. FRIBERG *Instructor in Clinical Medicine*
M.D., Middlesex University

JOHN F. CONLIN *Instructor in Clinical Medicine*
A.B., Boston College; M.D., Tufts College

CECIL SMITH *Instructor in Clinical Medicine*
M.D., Middlesex University

ROBERT W. MANCE *Instructor in Clinical Medicine*
M.D., Howard University

JOHN M. RUSSELL *Lecturer in Medical Jurisprudence*
A.B., Catholic University; LL.B., Harvard University

General Surgery

JOHN HALL SMITH *Professor Emeritus of Surgery*
M.D., University of Louisville

MARTIN L. MACDONALD *Professor of Surgery*
M.D., Middlesex University

JOSEF FISCHER *Professor of Otorhinolaryngology*
M.D., University of Vienna

EDWARD D. LEETE *Professor of Obstetrics*
M.D., Jefferson Medical College

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

THEODORE FISCHER-GALATI	<i>Professor of Ophthalmology</i>
M.D., University of Vienna	
SAMUEL SEGAL	<i>Instructor in Proctology</i>
A.B., Harvard University; M.D., Boston University	
JACOB I. ABRAMS	<i>Instructor in Ophthalmology</i>
M.D., Boston University	
I. W. JOSSELSOHN	<i>Instructor in Anesthesia</i>
M.D., Middlesex University	
WILLIAM M. KONIKOV	<i>Lecturer in Urology</i>
A.B., Harvard University; M.D., Boston University	
HYMAN SCHRIER	<i>Instructor in Gynecology</i>
M.D., Tufts College	
EDWARD J. DAILEY	<i>Instructor in Clinical Surgery</i>
M.D., Tufts College	
VIRGIL ABELE	<i>Instructor in Clinical Surgery</i>
M.D., Middlesex University	
LEWIS GLAZER	<i>Instructor in Clinical Surgery</i>
M.D., Tufts College	
SAMUEL L. GREENBERG	<i>Instructor in Urology</i>
M.D., Middlesex University	
JOSEPH S. PHANEUF	<i>Instructor in Clinical Surgery</i>
M.D., College of Physicians and Surgeons	
WILLIAM E. SHUB	<i>Instructor in Obstetrics</i>
M.D., Middlesex University	

Committees of the Trustees and Faculty

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The President is ex-officio member of all committees.

Degrees

At Commencement Exercises, held at the Hamblin L. Hovey Institute, Waltham, on the twelfth day of June 1939, the degree of Doctor of Medicine was conferred on the following candidates:

Class of 1939

SIDNEY MARTIN ABRAMS	New York, N. Y.
B.S., Long Island University	
DANIEL ATOMAN	Lynn, Mass.
University of New Hampshire	
Middlesex College	
JOSEPH BLANK	Jamaica, N. Y.
B.S., Moravian College	
RUSSELL FRANCIS BROOMAN	Philadelphia, Pa.
Ph.G., Philadelphia College of Pharmacy	
B.A., Temple University	
EUGENE FRANCIS BROOKS	New York, N. Y.
Middlesex College	
GREGORY FRANCIS BYRNE	Hyde Park, Mass.
A.B., Boston College	
DAVID H. COREY	Cambridge, Mass.
A.B., Boston College	
CHARLES F. CONWAY	Millville, Mass.
Ph.B., Providence College	
ALFRED LOTT CORNWELL	Bridgeton, N. J.
B.S., Dickinson College	
ADRIAN DELERZON	Newton, Mass.
Ph.G., Massachusetts College of Pharmacy	
Middlesex College	
JOHN SALVATORE DESIMONE	Avonmore, Pa.
B.S., University of Pittsburgh	
ROBERT VINCENT DIPASCA	New York, N. Y.
A.B., Fordham University	
JAMES FRANCIS DONNELLY	New Haven, Conn.
B.S., Tufts College	
JOHN DONOVAN	Oswego, N. Y.
Syracuse University	
AARON ARTHUR DUBROW, <i>Cum Laude</i>	Dorchester, Mass.
Middlesex College	

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

VICTOR ELLIS	Dorchester, Mass.
Middlesex College	
ALLEN WILLIAM ENOS	Adams, N. Y.
B.S., Cornell University	
MURRAY IRWIN FEINBERG	Mattapan, Mass.
Middlesex College	
STANLEY HAROLD FRANKLIN	Dorchester, Mass.
Middlesex College	
MORTON MAURICE ALBERT GOLDBERG	New York, N. Y.
Long Island University	
Dalhousie University	
HERBERT GOLDMAN, <i>Cum Laude</i>	Lynn, Mass.
B.S., Boston University	
REUBEN GREENBERG	Bronx, N. Y.
Long Island University	
University of Arkansas	
FRANCIS PAUL GRENN	Plains, Pa.
Purdue University	
ISIDORO JOSEPH GUCCIONE	Corona, N. Y.
B.S., Villanova College	
CHARLES WILFRED HAUCK	Girard, Pa.
B.S., University of Pittsburgh	
LEON GILBERT JACOBS	Bayonne, N. J.
B.S., Georgetown University	
JOSEPH KALNA	Maltby, Pa.
B.S., Villanova College	
GEORGE STAFFORD KERR	Baton Rouge, La.
B.S., Louisiana State University	
HERBERT KORENBLITT	Somerville, Mass.
Middlesex College	
LOUIS LEVINE	Brooklyn, N. Y.
Long Island University	
ERIC CHARLES LOTH	Elizabeth, N. J.
B.S., Bowdoin College	
JOHN JOSEPH LOUGHLIN	Olean, N. Y.
A.B., Cornell University	
RALPH MAXWELL MACMILLAN	Brooklyn, N. Y.
B.S., Long Island University	
DONALD FRANCIS McENROE	Whitman, Mass.
Harvard University	
Middlesex College	

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

BERNARD FRANCIS McKERNAN	Yonkers, N. Y.
A.B., Fordham University	
PETER PAUL McKINNIS	Lawrence, Mass.
Northeastern University	
Middlesex College	
ALFONSO CHARLES MANDRACHIA	Everett, Mass.
B.S., Tufts College	
EDWARD JOHN MATTHEWS	Newark, N. J.
B.A., New York University	
MILTON SONNIEL MONYER	Elizabeth, N. J.
Middlesex College	
FRANK DONALD NAPOLITANI	New York, N. Y.
B.A., University of Alabama	
THOMAS FRANCIS O'BRIEN	Mineville, N. Y.
B.A., Holy Cross College	
LOUIS GERARD PELLETTIERI	Yonkers, N. Y.
B.S., Manhattan College	
MEYER PERLSTEIN, <i>Cum Laude</i>	Brooklyn, N. Y.
B.S., Columbia University	
EDMUND STANLEY PISZCZEK	Plymouth, Pa.
Villanova College	
FRANCIS LYONS PLOUFF	Mishawaka, Ind.
B.S., Purdue University	
DANIEL ANTHONY PORRECA	Philadelphia, Pa.
B.S., Villanova College	
HARRY ALVIN PRESS, <i>Cum Laude</i>	New York, N. Y.
A.B., College of City of New York	
THOMAS RINALDI	Schenectady, N. Y.
B.S., Fordham University	
PETER ROSANELLI	Brooklyn, N. Y.
B.A., Colgate University	
PAUL ROTHENBERG	Brooklyn, N. Y.
New York University	
Dalhousie University	
ARTHUR ALOYSIUS RYAN	Jersey City, N. J.
B.S., Fordham University	
WILLIAM G. D. SCALES	Dunellen, N. J.
B.S., Johnson C. Smith University	
ROBERT SCHWARTZ	Dorchester, Mass.
Middlesex College	
GUY FRANCIS SCIACCA	Boston, Mass.
Middlesex College	

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

THEODORE SHANE	Mattapan, Mass.
Middlesex College	
DANIEL JOSEPH SHEMA	Hyde Park, Mass.
Middlesex College	
LEONARD VICTOR SHORT	Tewksbury, Mass.
B.S., Tufts College	
WILLIAM E. SORREL	Bronx, N. Y.
B.S., New York University	
M.A., Columbia University	
PASQUALE ROCCO TEDESCHI	Newton, Mass.
Tufts College	
ANTHONY JAMES TERRANOVA	Fulton, N. Y.
Syracuse University	
RUSSELL FRANCIS THOMPSON	Abington, Mass.
Middlesex College	
FRANKLYN EDWARD VERDON	Millburn, N. J.
A.B., Catholic University	
ABRAHAM DAVID WEINTRAUB	New York, N. Y.
San Bernardino Junior College	
Riverside Junior College, University of Redlands	
JOSEPH WIESENTHAL	New York, N. Y.
University of Vienna	
LEO U. ZAMBON	South Ryegate, Vt.
University of Vermont	

Students 1939-1940

Candidates for the Degree of Doctor of Medicine

Fourth-Year Class

PHYLLIS MADINE ABBOTT	Auburn, Me.
A.B., Randolph-Macon Woman's College	
LOUIS JAMES BADIA	New Rochelle, N. Y.
Ph.G., B.S., Fordham University	
IRVING LURIE BERMAN	New York, N. Y.
B.S., College of the City of New York	
GEORGE A. CAMERON	New York, N. Y.
B.S., Johnson C. Smith College	
RAYMOND GERARD CANNON	Bellerose, N. Y.
Elon College	
EDWARD MILAN CARDILLO	Everett, Mass.
A.B., Boston College	
JACK STANLEY CARP	Manchester, N. H.
Massachusetts College of Pharmacy	
Middlesex College	
JOHN QUINN CLARK	Providence, R. I.
Ph.B., Providence College	
SIMON COHEN	Mattapan, Mass.
Middlesex College	
EDWARD DOWNER CROISSANT	West Medford, Mass.
Tufts College	
EDMUND VINCENT DENTE	Somerville, Mass.
Middlesex College	
ROBERT EDWARD DONOVAN	New York, N. Y.
Notre Dame College, Columbia University	
Fordham University	
THEODORE GILBERT ECHLOV	Mattapan, Mass.
A.B., Harvard University	
MAX ETTEBERG	Cambridge, Mass.
Middlesex College	
ALBERT G. FLYNN	Baton Rouge, La.
Louisiana State College	
ROBERT CHARLES GAUDREAU	Indian Orchard, Mass.
A.B., Assumption College	

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

WILLIAM M. GIANQUINTO	Brooklyn, N. Y.
A.B., Ohio University	
WILLIAM GOLDSTEIN	New York, N. Y.
B.S., Long Island University	
ROSARIO GULLO	Buffalo, N. Y.
B.S., Canisius College	
WILLIAM THOMAS HARRINGTON	Everett, Mass.
Ph.B., Boston College	
WENDELL BURKE HARRIS	Brockton, Mass.
Middlesex College	
Wilberforce University	
LAWRENCE SEYMORE HIRSCH	Buffalo, N. Y.
University of Buffalo	
CHARLES HONIG	Brooklyn, N. Y.
B.S., College of the City of New York	
EMIL LEHR	Montclair, N. J.
Long Island University	
MASHE UDA LABE LIGHTMAN	Lowell, Mass.
A.B., Bates College	
DANIEL G. LIPMAN	Brooklyn, N. Y.
Long Island University	
Dalhousie University	
SIMON MORRIS LIPTON	Miami, Fla.
B.S., University of Florida	
JOHN ANTHONY MASTROMARINO	Revere, Mass.
Middlesex College	
JOHN E. McCLUSKY	Providence, R. I.
B.S., Fordham University	
GEORGE METZ	New York, N. Y.
A.B., New York University	
JOHN GEORGE MORIN	Newark, N. J.
B.S., Villanova College	
FLOYD A. NASSIF	Cedar Rapids, Iowa
B.S., State University of Iowa	
CHESTER LEONARD NAYFIELD	Mt. Carmel, Pa.
B.S., Bucknell University	
GEORGE EMIL PAGLIARULO	Boston, Mass.
Middlesex College	
GEORGE POVEY PARTON, JR.	Chevychase, D. C.
B.S., Catholic University	

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

CARMINE PAULANTONIO	New York, N. Y.
B.S., Fordham University	
SAVERIO PICCERI	Boston, Mass.
Middlesex College	
LAWRENCE KEMPNER PIOUS	New Haven, Conn.
B.A., Wesleyan College	
EVERETT SIMON RADOVSKY	Fall River, Mass.
B.S., Rhode Island State College	
LOUIS S. RICCARDI	Brooklyn, N. Y.
A.B., University of North Carolina	
RUDOLPH SALVATORE ROMANO	East Greenwich, R. I.
B.S., Villanova College	
VINCENT SCHETTINI	Newburgh, N. Y.
A.B., Syracuse University	
WALTER ROBERT SCHUR	Webster, Mass.
Valparaiso University	
JULIAN ROBERT SEIDE	New York City
New York University	
Middlesex College	
NATHAN H. SKORNIK	Brooklyn, N. Y.
B.S., New York University	
WARREN GRANT SNYDER	Wilmington, Del.
B.S., Baldwin-Wallace College	
JULIAN N. SPEIGEL	Spartanburg, S. C.
B.S., Wofford College	
LOUIS STRAUSS	Boston, Mass.
Ph.G., Massachusetts College of Pharmacy	
B.S., Middlesex College	
BERNARD TAYLOR	Brooklyn, N. Y.
A.B., New York University	
ISAAC JOSEPH TENDER	Paulsboro, N. J.
B.S., Gettysburg College	
KENNETH HARRISON WILLARD	Framingham, Mass.
B.S., Tufts College	
RICHARD TRENHOLM WILSON	Arlington, Mass.
B.S., Tufts College	
ISIDORE JACQUES YETWIN	Elizabeth, N. J.
B.S., Rutgers University	
S.M., University of Chicago	
RICHARD FRANCIS YORK	Richmond Hill, N. Y.
Niagara University	

Third-Year Class

ELI ABRAMS	Boston, Mass. —
B.S., Boston University	
SAMUEL LOUIS ASPIS	New York, N. Y.
B.S., College of the City of New York	
JOSEPH FREDERICK ATANASIO	Brooklyn, N. Y.
B.S., Franklin and Marshall College	
WILLIAM LESTER BARNES	Lexington, Mass.
A.B., Acadia University	
JOHN JAMES BARRY	Medford, Mass.
B.A., Holy Cross College	
JAMES D. BEATON	Oyster Bay, N. Y.
B.S., Manhattan College	
MILTON BERGER	New York, N. Y.
B.A., University of Michigan	
MILTON BERLAD	New York, N. Y.
B.A., M.A., University of Richmond	
JOSEPH BERMAN	Edgemere, N. Y.
Long Island University	
LOUIS LAWRENCE BLUESTEIN	Lynn., Mass.
A.B., Tufts College	
DONALD BRAND	Oneonta, N. Y.
Hartwick College	
NATHAN HARRY BROWNSTEIN	Minot, N. D.
B.S., University of North Dakota	
EDWARD CHARLES CARR	Waterbury, Conn.
B.S., Fordham University	
JOSEPH CERNIGLIA	Chicago, Ill.
Loyola University	
KENNETH COHEN	Lynn, Mass.
Massachusetts State College	
Middlesex College	
MOE COHEN	Brooklyn, N. Y.
New York University	
NATHAN WILLIAM COLEMAN	Roxbury, Mass.
B.A., Brown University	
DANTE PAUL COLITTI	New York, N. Y.
B.S., Manhattan College	
DAVID JOHNSON CORNICK	South Norfolk, Va.
B.S., Wilberforce University	
M.S., University of Michigan	

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

STANLEY FRANK DEBSKI	Brooklyn, N. Y.
B.S., St. Bonaventure College	
FRANCIS THOMAS DESTEFANO	Roxbury, Mass.
Boston College	
St. Anselm's College	
JOHN PERSHING DICICCO	Worcester, Mass.
Middlesex College	
CHARLES DI GIACOMO	South Boston, Mass.
Tufts College	
GUY ALFRED DISTASIO	Revere, Mass.
Ph.G., Massachusetts College of Pharmacy	
B.S., Middlesex College	
WILLIAM DORFMAN	Hoboken, N. J.
A.B., Duke University	
GEORGE C. DOWD	Worcester, Mass.
A.B., Harvard University	
SIDNEY LEO ELWYN	Dorchester, Mass.
B.A. Depauw University	
NICHOLAS JOSEPH ESPOSITO	Troy, N. Y.
A.B., Union College	
HARRY FINKELMAN	Portland, Me.
A.B., Brown University	
JACOB FREEDMAN	Haverhill, Mass.
Middlesex College	
NOBLE R. FRISBY	Washington, D. C.
B.S., Howard University	
GIOBERT GIANREGORIO	Boston, Mass.
B.S., Tufts College	
M.Ed., Boston University	
SIDNEY GOLDMAN	Roxbury, Mass
Middlesex College	
JAY STANLEY GOLDWYN	Brooklyn, N. Y.
A.B., New York University	
STANLEY GOTTLIEB	Brooklyn, N. Y.
B.S., Long Island University	
GAETANO GUY GRANDE	E. Boston, Mass.
Middlesex College	
GERALD FRANCIS GRAY	Hornell, N. Y.
B.S., St. Bonaventure College	
B. JOAN HERZENBERG	Brooklyn, N. Y.
A.B., Hunter College	
B.S., Dalhousie University	

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

SIDNEY KANOWITZ	Chester, Mass.
A.B., Clark University	
ABRAHAM KAUFMAN	Brooklyn, N. Y.
B.S., Long Island University	
EDWARD JOSEPH KIEMMER	Holyoke, Mass.
Villanova College	
Temple University	
BERNARD SIDNEY KRAMER	Revere, Mass.
Ph.G., Massachusetts College of Pharmacy	
B.S., Middlesex College	
HENRY HALL KYLE	Crownsville, Md.
George Washington University	
St. John's College	
MARTIN EUGENE LASOFF	Brooklyn, N. Y.
B.S., University of Arkansas	
ALFRED LOUIS LENTINI	Roslindale, Mass.
B.A., Boston College	
MORRIS FRANKLYN LEVY	Hoboken, N. J.
B.S., Wayne University	
SIDNEY LEWIS	Troy, N. Y.
Union College	
JOHN WILLIAM LINGOS	Boston, Mass.
A.B., Boston College	
ABRAHAM D'ARCY LOCKSHIN	Youngstown, O.
B.S., M.A., Ohio State University	
THEODORE ROOSEVELT MACK	Mooresville, N. C.
B.S., Davidson College	
FELIX VITO MARINO	Brooklyn, N. Y.
B.S., Long Island University	
GEORGE MARMER	Lynn, Mass.
B.A., Tufts College	
ANTHONY LAWRENCE MAUCERI	Glendale, N. Y.
University of Kentucky	
B.S., Long Island University	
THOMAS ARTHUR MCCULLOUGH	Watervliet, N. Y.
A.B., Union College	
MACEO D. MCGOODWIN	Chicago, Ill.
B.S., West Virginia State College	
JAMES LELAND MENGES	Everett, Mass.
Tufts College	
Middlesex College	

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

EDWARD MICHAEL MERRICK	Newton, Mass.
A.B., Boston College	
ABRAHAM IRVING MICHAELSON	Revere, Mass.
B.S., Massachusetts State College	
HERBERT NOGIN	Brooklyn, N. Y.
B.S., Long Island University	
VINCENT JOSEPH PANVINI	New York, N. Y.
B.S., Fordham University	
SYDNEY SANFORD PARKER	Dorchester, Mass.
B.S., Rhode Island State College	
NATALE ROBERT PETRELL	Somerville, Mass.
B.S., Tufts College	
SAUL HARRY PHILLIPS	Roxbury, Mass.
Middlesex College	
SANTO S. QUARTARONE	Lawrence, Mass.
Middlesex College	
LESTER IRVING RALPH	Brooklyn, N. Y.
B.S., Long Island University	
SIDNEY LEONARD RAYMON	Huntington, N. Y.
A.B., University of Pennsylvania	
JACK ROWLEN RINGER	Cambridge, O.
B.A., Denison University	
MAURICE SAMUEL ROSENBERG	Roxbury, Mass.
Middlesex College	
CATHERINE HELENA ROTH	Brooklyn, N. Y.
A.B., Syracuse University	
WILLIAM ANGELO SACCONI	Revere, Mass.
B.S., Tufts College	
HENRI P. J. SAINT HILLE	Cap Haitien, Haiti
B.S., Wilberforce University	
HERBERT SANDRESKY	Buffalo, N. Y.
A.B., Cornell University	
FRANK JOHN SCHAFER	New York, N. Y.
B.S., Villanova College	
GILBERT F. SCHAFFNER	Utica, N. Y.
B.S., Franklin & Marshall College	
JACOB JOSEPH SEBRENK	Brooklyn, N. Y.
Long Island University	
University of Cincinnati	
FRANKLIN IRVING SHUMAN	Mattapan, Mass.
Middlesex College	

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

ALECK SMITH	Somerville, Mass.
B.S., Massachusetts State College	
BENJAMIN SPELFOGEL	Mattapan, Mass.
B.S., Boston University	
A.M., Harvard University	
DONEL RICHARD SULLIVAN	Brookline, Mass.
A.B., Boston College	
A.M., Boston University	
EDMUND J. SULLIVAN	Milford, Mass.
B.S., Massachusetts State College	
SAMUEL SUNSHINE	Brooklyn, N. Y.
College of City of New York	
New York University	
Dalhousie University	
SIGMUND JOHN SZYDLOWSKI	Wakefield, Mass.
B.S., Tufts College	
JACOB ALEXANDER TALMADGE	New York, N. Y.
B.S., New York University	
HAROLD SAMUEL TANNENBAUM	Jamaica Plain, Mass.
B.S., Massachusetts State College	
JOHN S. TONDERYS	Woonsocket, R. I. ✓
B.S., Providence College	
VINCENT TOTIN	Perth Amboy, N. J. —
B.A., Villanova College	
JOSEPH AUGUST VALATKA	Worcester, Mass.
Clark University	
CHARLES WEINBERG	Boston, Mass.
Middlesex College	
THOMAS FRANCIS WHALEN, JR.	New York, N. Y.
B.S., Fordham University	
HERBERT KILLIAN WITTIG	Buffalo, N. Y.
University of Buffalo	
FRANCIS JOSEPH WIXTED	Danbury, Conn.
Villanova College	
LOUIS J. XANTHOPOULOS	Lowell, Mass.
University of Scranton	
University of Athens	

Second-Year Class

DANIEL DAVID ALEXANDER	Norwich, Conn.
A.B., Brown University	
A.M., University of Michigan	

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

MARIO DONALD ALOYSIUS	Tuckahoe, N. Y.
College of the City of New York	
Fordham University	
WALLACE JAMES BAKER	Plattsburg, N. Y.
B. S., University of Vermont	
STANTON BELINKOFF	Bayonne, N. J. —
B.S., Bowdoin College	
SOLOMON BIENENSTOCK	New York, N. Y.
Long Island University	
WILLIAM BLOTNICK	Revere, Mass.
Middlesex University	
ELI CORNETT BOGGS	Hazard, Kentucky
B.S., University of Kentucky	
JAMES GLENN BOGGS	Hazard, Kentucky
A.B., Kentucky Wesleyan College	
CHARLOTTE LADYSTOW BONCZKOWSKI	Chicago, Ill.
Lewis Institute	
JOHN PATRICK BOYLAN	Rochester, N. Y.
B.S., Georgetown University	
WILLIAM LEON BRODMAN	Glenside, Pa.
Temple University	
PASQUALE JOSEPH CICCONE	Little Falls, N. J.
A.B., New York University	
JOSEPH ANTHONY DEFEO	New York, N. Y.
A.B., Fordham University	
MILTON MICHAEL DELMAR	Brooklyn, N. Y.
B.S., Long Island University	
EDWARD JOHN DENICOLAIS	New York, N. Y.
B.S., Fordham University	
ALBERT BENJAMIN DIAMANTE	Schenectady, N. Y.
A.B., Union College	
ANTHONY FRANCIS DISTEFANO	Boston, Mass.
Middlesex University	
MORRIS DITCH	Dorchester, Mass.
A.B., University of North Carolina	
ISADORE DVINSKY	Camden, N. J.
A.B., University of Alabama	
EDWIN EPSTEIN	Centreville, Md.
B.S., University of Maryland	
Johns Hopkins University	

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

HENRY DAVID EVANSKY	Passaic, N. J.
A.B., Rutgers University	
CHARLES FERRERA	Boston, Mass.
Middlesex University	
LOUIS FRANCAVILLE	Atlantic City, N. J.
A.B., Pennsylvania State College	
GEORGE ANTHONY GAGLIANI	New York, N. Y.
Long Island University	
ARTHUR FREDERICK GEISS	Syracuse, N. Y.
A.B., Syracuse University	
VINCENT JOHN GERACI	New York, N. Y.
A.B., New York University	
HOMODE HABHAB	Fort Dodge, Iowa
A.B., University of Iowa	
FRANK ALBERT HIRSCH	Lawrence, Mass.
Middlesex University	
WILLIAM HOFFMAN	East Pittsburgh, Pa.
University of Pittsburgh	
University of St. Louis	
OSCAR KARL HOLLANDER	Brockton, Mass.
Middlesex University	
BERNARD SINGLETON HUGHES	New York, N. Y.
A.B., Lincoln University	
JOSEPH LEONARD IVINS	Chester, Pa.
A.B., University of Pennsylvania	
FRANKLIN HAROLD JACOBSON	Revere, Mass.
B.S., University of Vermont	
EDWARD LEE GREGORY JACOUBS	New York, N. Y.
B.S., Lafayette College	
LEON SIDNEY JONES	Boston, Mass.
A.B., Tougaloo College	
LEO KARRON	Brooklyn, N. Y.
State University of Iowa	
ALAN LAURENCE KAUFMAN	Brookline, Mass.
B.S., Franklin and Marshall College	
LOUIS KUNIAN	Lynn, Mass.
Amherst College	
B.S., St. Bonaventure College	
VICTOR EMANUEL LANDRY	Baton Rouge, La.
B.S., Louisiana State University	

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

JOSEPH WILFRED LEMIRE	Holyoke, Mass.
A.B., Assumption College	
LESTER LEVINE	New York, N. Y.
A.B., New York University	
FRANK GOLD LINDSAY	Washington, D. C.
George Washington University	
ELIOT LUBELL	New York, N. Y.
New York University	
JULIAN ROMAN MACIEROWSKI	Boston, Mass.
A.B., Boston College	
MICHAEL MANOOGIAN	Worcester, Mass.
A.B., Clark University	
RICHARD A. MCGOVERN	Lawrence, Mass.
Middlesex University	
ROSARIO JOSEPH MONTAPERTO	Maspeth, N. Y.
B.S., Fordham University	
NICHOLAS VINCENT MONTESANO	Brooklyn, N. Y.
B.S., Mt. St. Mary's College	
DAVID SALEM MOSES	Boston, Mass.
B.S., Boston University	
JOHN JOSEPH MULLIGAN	Harrison, N. J.
B.S., Rutgers University	
THOMAS PAUL MUSANTE	Bridgeport, Conn.
B.S., Franklin and Marshall College	
WALTER NALESNIK	Salem, Mass.
Middlesex University	
GERHARD J. NEWERLA	Schenectady, N. Y.
B.S., Columbia University	
JOSEPH OSTROGER	Brooklyn, N. Y.
A.B., New York University	
JOSEPH JOHN PALERMO	New York, N. Y.
B.S., Long Island University	
JOSEPH PETER PAOLILLO	Brooklyn, N. Y.
A.B., Ohio University	
STANLEY GILBERT PARKER	Wellesley, Mass.
Northeastern University	
B.S., Middlesex University	
DOMENIC ANTHONY PINO	Boston, Mass.
Middlesex University	

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

JOSEPH EDWARD PISANO	Philadelphia, Pa. Temple University
SYDNEY POLATIN	Bayonne, N. J. A.B., University of Michigan
EUGENE RAICUS	Jamaica, N. Y. A.B., New York University
ANTHONY JAMES REPPUCCI	Revere, Mass. Middlesex University
ARTHUR ROBINSON	Brooklyn, N. Y. Long Island University
ROBERT ROBINSON	Brooklyn, N. Y. Brooklyn College B.S., Columbia University
EDWARD ARTHUR RONDEAU	Lawrence, Mass. Bucknell University Villanova College
SIDNEY JACK ROSE	Brooklyn, N. Y. B.S., College of the City of New York
CHARLES EDWARD ROSENTHALL	Atlantic City, N. J. B.S., Pennsylvania State College
MAURICE RUBIN	Jersey City, N. J. Long Island University
MORTON MORRIS SAFRAN	Allentown, Pa. A.B., University of Minnesota
HERMAN CHARLES SCHNEIDERMAN	Dorchester, Mass. American International College Middlesex University
HARRY SCHWARTZ	Baltimore, Md. B.S., University of Maryland
NICHOLAS VETO SCORZELLI	New York, N. Y. B.S., Manhattan College
NICHOLAS JAMES SEMENZA	Old Forge, Pa. A.B., Pennsylvania State College
HENRY WILLIAM SIEGEL	Dorchester, Mass. A.B., Harvard University
JACOB SIEGEL	New York, N. Y. B.S., Long Island University
PHILIP HAROLD SMITH	New York, N. Y. A.B., New York University
GEORGE SULMEYER	New York, N. Y. B.S., College of the City of New York

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

PETER FRANKLIN TITUS	Watertown, Mass.
Middlesex University	
ISIDOR SHERMAN TOLPIN	Lynn, Mass.
Ph.G. Massachusetts College of Pharmacy	
B.S., A.B., University of Southern California	
LESLIE UPTON	New York, N. Y.
College of City of N. Y.	
ROSE LOUISE VERRANDO	North Bergen, N. J.
A.B., Hunter College	
HERMAN WEINSTEIN	Brooklyn, N. Y.
B.S., Long Island University	
MORRIS WEISSMAN	New York, N. Y.
Long Island University	
A.B., University of Texas	
JOHN JAMES WHOLEY	Lawrence, Mass.
Dartmouth College	
B.S., Middlesex University	
ALEXANDER EDWARD WILLENSKY	New York, N. Y.
A.B., University of Kansas	
THADDEUS MARCEL WITKA	Buffalo, N. Y.
University of Buffalo	
HENRY JOHN ZIOLKOWSKI	Hazleton, Pa.
B.S., Saint Francis College	

First-Year Class

JOSEPH AMBROSINO	New York, N. Y.
B.S., New York University	
ALBERT HERMAN ARBETTER	Boston, Mass.
Middlesex University	
MATTHEW ARNAO	Brooklyn, N. Y.
B.S., St. John's University	
JOSEPH ANTHONY BALDASSARRE	Boston, Mass.
Middlesex University	
HARRY BARTFELD	New York, N. Y.
A.B., New York University	
JOSEPH LAWRENCE BELL	Brooklyn, N. Y.
A.B., New York University	
CURTIS EDWARD BIPPERT	New York, N. Y.
University of Buffalo	
Alfred University	

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

JOHN CAMMARATA	New York, N. Y.
A.B., New York University	
SHELDON M. CAPLAN	Chester, Pa.
A.B., University of Pennsylvania	
MARIO RAYMOND CAPPUCCIO	Boston, Mass.
Middlesex University	
JOSEPHINE A. CHASE	Bridgewater, Mass.
A.B., A.M., Boston University	
MANUEL COGGAN	Malden, Mass.
University of Michigan	
SUMNER H. COHEN	Boston, Mass.
Middlesex University	
HERBERT CUTLER	Boston, Mass.
Middlesex University	
HAROLD FRANCIS DALLAS	New York, N. Y.
B.S., Fordham University	
GEORGE DANIS	Chelsea, Mass.
Middlesex University	
WILFRED DANIEL DAVID	Newport, R. I.
B.S., Rhode Island State College	
LEONARD MAURY DAVIDOFF	Brooklyn, N. Y.
Long Island University	
SAUL PAUL DAVIS	Boston, Mass.
B.S., Boston College	
JOSEPH EDWARD DREYFUS	Boston, Mass.
Middlesex University	
MOSES JACOB ENTIN	Boston, Mass.
B.S., Massachusetts State College	
EUGENE MICHAEL FERRARO	New York, N. Y.
New York University	
Middlesex University	
DOMENIC S. FIORENTINO	Boston, Mass.
A.B., Boston College	
JOSEPH ROWLAND FONTANETTA	Brooklyn, N. Y.
A.B., New York University	
CONSTANCE MARY FORMICOLA	Boston, Mass.
Middlesex University	
BERTRAM FREEDMAN	Winthrop, Mass.
Boston University	
Middlesex University	
JOHN PASQUALE GALLO	Schenectady, N. Y.
A.B., Union College	

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

SOL MARTIN GOLD	Chester, Pa.
A.B., A.M., University of Pennsylvania	
MAX GREENBERG	Boston, Mass.
State University of Iowa	
MORTON JEROME GREENBERG	New York, N. Y.
A.B., New York University	
SAMUEL SIDNEY GREENSTEIN	Chelsea, Mass.
A.B., Johns Hopkins University	
AMOS JAMES GUARENTE	Medford, Mass.
B.S., Boston College	
ROSS GUTMAN	New York, N. Y.
B.S., Long Island University	
HARRY HARHAY	Trenton, N. J.
University of Alabama	
SAMUEL B. HENKEN	Meriden, Conn.
Muhlenberg College	
New York University	
NORMAN HERMAN	Winthrop, Mass.
Middlesex University	
ABRAHAM CHARLES HOFFMAN	Knoxville, Tenn.
A.B., M.S., University of Tennessee	
RAYMOND HORAN	Bridgeport, Conn.
Notre Dame University	
PHILIP ANTHONY IERARDI	Lynn, Mass.
B.S., Tufts College	
ROBERT LOUIS IMMORDINO	Trenton, N. J.
B.S., M.S., Villanova College	
JOSEPH MICHAEL INDIVIGLIO	New York, N. Y.
Long Island University	
JOHN JOSEPH INGRASSIA	Brooklyn, N. Y.
B.S., Long Island University	
ELI I. JACOBS	Brooklyn, N. Y.
B.S., University of Arkansas	
LEONARD ALLAN JOHNSON	Carver, Minn.
Hamlein University	
University of Minnesota	
Middlesex University	
LEON GEORGE KAMRAS	New York, N. Y.
A.B., New York University	
JOSEPH EDWIN KAPC	Glen Lyon, Pa.
B.S., Villanova	

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

HERMAN ROBERT KASS	Brooklyn, N. Y.
A.B., New York University	
MAURICE KERSHNER	Burlington, Vt.
B.S., University of Vermont	
FRANCIS ALBERT KINCUS, JR.	Middlebury, Mass.
Colby College	
Middlesex University	
JOSEPH CARROLL KING	Lawrence, Mass.
A.B., St. Anselm's College	
MICHAEL MAX KLEIN	Brooklyn, N. Y.
Long Island University	
New York University	
HENRY MAURICE KLEINMAN	New York, N. Y.
B.S., George Washington University	
MILTON LEONARD KOBROSKY	Springfield, Mass.
B.S., Trinity College	
ALLEN KOPLIN	New York, N. Y.
A.B., New York University	
HERBERT KRAUSS	Dorchester, Mass.
Massachusetts State College	
Middlesex University	
I. EDWARD KRINSKY	New York, N. Y.
B.S., Long Island University	
LAWRENCE KVITKA	Hondo, California
University of Detroit	
LOUIS LEIBSON	New York, N. Y.
College of the City of N. Y.	
MAYNARD LENDER	Boston, Mass.
Massachusetts College of Pharmacy	
Middlesex University	
LESTER IRVING LEONARD	Hillside, N. J.
Middlesex University	
DONALD JOHN LETTY	Boston, Mass.
Middlesex University	
STANLEY LEVIN	New York, N. Y.
A.B., West Virginia University	
FRANK CHARLES LITURI, JR.	Waltham, Mass.
Middlesex University	
JOSEPH LUMIA	Brooklyn, N. Y.
Ph.G., St. John's University	
B.S., Middlesex University	
JOHN JOSEPH MANSFIELD	Oswego, N. Y.
B.S., Niagara University	

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

JOHN SALVATORE MICELI	New York, N. Y.
A.B., New York University	
ARTHUR SUMNER NEWMAN	Dorchester, Mass.
Middlesex University	
HAROLD SAYLOR NEWELL	Connellsville, Pa.
B.S., Ashland College	
HAROLD EUSTACE PIERCE	New Bedford, Mass.
A.B., Harvard University	
MILTON PLAFKER	Corona, New York
B.S., New York University	
JOSEPH ROSENBERG	Fitchburg, Mass.
Rhode Island State College	
Middlesex University	
ALBERT SEYMOUR ROTHSEID	Newark, N. J.
A.B., Lafayette College	
MOSES T. SAHADI	New Bedford, Mass.
B.S., Providence College	
SAUL SCHEFF	Boston, Mass.
B.S., University of Chicago	
SHEPARD MILES SCHWARTZ	Boston, Mass.
Middlesex University	
MICHAEL SHECHTMAN	New York, N. Y.
A.B., New York University	
SEYMOUR SHENFELD	New York, N. Y.
A.B., University of Louisville	
ALBERT SHUB	Philadelphia, Pa.
Philadelphia College of Pharmacy	
JAMES WILLARD SILLAMAN, JR.	Bradenville, Pa.
Waynesburg College	
JACK HIRSH SKELSKIE	Dorchester, Mass.
Middlesex University	
HAROLD SOBEL	Brooklyn, N. Y.
A.B., New York University	
ALFRED L. SOLOW	Everett, Mass.
Middlesex University	
EDWARD SAUL STEIMAN	Revere, Mass.
Middlesex University	
HASKELL STERLING	Dorchester, Mass.
Middlesex University	
LAWRENCE STRAUSS	Corona, N. Y.
B.S., Columbia University	

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

GEORGE WESLEY STRODE	Galveston, Tex.
B.S., Howard University	
ANTHONY S. THOMAS, JR.	Bristol, R. I.
Holy Cross College	
Middlesex University	
JOHN HENRY TIEDEMANN	Jersey City, N. J.
University of Alabama	
ANTHONY JOSEPH TOCCO	Yonkers, N. Y.
Fordham University	
JOSEPH PETER VALESKA	Salem, Mass.
Middlesex University	
LUIS ANTONIO VALLERINO	Panama, S. A.
George Washington University	
ANTHONY SAMUEL VALVO	Rome, N. Y.
B.S., Notre Dame University	
JOSE RAMON VARELA	New Orleans, La.
Tulane University	
University of Louisville	
SHELDON ROBERT WATSKI	Mt. Vernon, N. Y.
A.B., New York University	
JESS B. WEISS	Mt. Vernon, N. Y.
A.B., University of Alabama	
IMRE JAMES WEITZNER	New York, N. Y.
A.B., New York University	
SAMUEL ELI WHITE	Malden, Mass.
B.S., Massachusetts Institute of Technology	
GERARD ZAUDER	Brooklyn, N. Y.
Johns Hopkins University	
Drake University	
BERTHOLD ZOFFER	New York, N. Y.
B.S., New York University	

Distribution by Colleges

Since some students attended more than one college in completing their preparation for admission to medical school, the number in this list will be greater than the total enrollment.

Acadia University	1	Hartwick College	1
Alabama, University of	4	Harvard University	5
Alfred University	1	Holy Cross College	2
American International College	1	Howard University	3
Amherst College	1	Hunter College	2
Arkansas, University of	2	Iowa, University of	1
Ashland College	1	Iowa, State University of	3
Assumption College	2	John Hopkins University	3
Athens, University of	1	Johnson S. Smith University	1
Baldwin-Wallace College	1	Kansas, University of	1
Bates College	1	Kentucky, University of	2
Boston College	11	Kentucky Wesleyan College	1
Boston University	7	Lafayette College	1
Bowdoin College	1	Lewis Institute	1
Brooklyn College	1	Lincoln University	1
Brown University	3	Long Island University	27
Bucknell University	2	Louisiana State University	1
Buffalo, University of	4	Louisville, University of	3
Canisius College	1	Loyola University	1
Catholic University	1	Manhattan College	3
Chicago, University of	2	Maryland, University of	2
Cincinnati, University of	1	Massachusetts College of Pharmacy	6
Clark University	3	Massachusetts Institute of Technology	1
Colby College	1	Massachusetts State College	7
College of the City of New York	9	Michigan, University of	5
Columbia University	4	Middlesex University	63
Cornell University	1	Minnesota, University of	2
Dalhousie University	3	Mt. St. Mary's College	1
Dartmouth College	1	Muhlenberg College	1
Davidson College	1	New York University	32
Depauw University	1	Niagara University	2
Detroit, University of	1	North Carolina, University of	2
Drake University	1	North Dakota, University of	1
Duke University	1	Northeastern University	1
Elon College	1	Notre Dame, University of	3
Florida, University of	1	Ohio State College	1
Fordham University	12	Ohio University	2
Franklin and Marshall College	4	Pennsylvania State College	3
Georgetown University	1	Pennsylvania, University of	4
George Washington University	4	Philadelphia College of Pharmacy	1
Gettysburg College	1		
Hamline University	1		

MIDDLESEX UNIVERSITY, SCHOOL OF MEDICINE

Pittsburgh, University of	1	Tennessee, University of	1
Providence College	3	Texas, University of	1
Randolph-Macon Woman's College	1	Tougaloo College	1
Rhode Island State College	4	Tufts College	12
Richmond, University of	1	Tulane University	1
Rutgers College	3	Trinity College	1
St. Anselm's College	2	Union College	4
St. Bonaventure College	3	Valparaiso University	1
St. Francis College	1	Vermont, University of	3
St. John's College	1	Villanova College	9
St. John's University	1	Virginia, University of	1
St. Louis University	1	Wayne University	1
Scranton, University of	1	Waynesburg College	1
Southern California, University of	1	Wesleyan University	1
Syracuse University	3	West Virginia State College	1
Temple University	3	West Virginia, University of	1
		Wilberforce University	4
		Wofford College	1

Geographical Distribution of Students

California	1	New York	127
Connecticut	7	North Carolina	1
Delaware	1	North Dakota	1
Florida	1	Ohio	2
Illinois	3	Pennsylvania	13
Iowa	2	Rhode Island	6
Kentucky	2	South Carolina	1
Louisiana	3	Tennessee	1
Maine	2	Texas	1
Maryland	3	Virginia	1
Massachusetts	123	Vermont	1
Minnesota	1	District of Columbia	3
New Hampshire	1	Haiti	1
New Jersey	22	Panama	1

Summary

Candidates for the Degree of Doctor of Medicine

Senior Class	54	Sophomore Class	87
Junior Class	92	Freshman Class	99

History

THE history of Middlesex University may be traced on the statute books of the Commonwealth of Massachusetts. The first of its component schools was chartered in 1849, and its development into a University was made possible by a series of legislative acts and charters in 1850, 1851, 1917, 1935, and 1937. It is empowered to confer degrees in Arts, Sciences, Medicine, and Veterinary Medicine.

The charter of Middlesex University authorizes its Board of Trustees to receive and hold real or personal estate by gift, grant, devise, bequest, or otherwise, to an amount not to exceed five million dollars, and provides that the clear income of the institution shall be applied to the endowment of the University in such manner as most effectually to promote its general educational purposes.

Middlesex University has achieved wide recognition for its freedom from bigotry and intolerance, and from racial or religious discrimination. The perpetuation of this policy is assured by the terms of its charter, which provides that "No officer or instructor in said University shall ever be required by the trustees to profess any particular religious opinion as a test of office, and no student shall be refused admission to or denied any of the privileges, honors, or degrees of said college on account of the religious opinions he may entertain".

Grounds and Buildings

The ninety-six acre campus of Middlesex University, situated on wooded heights in the outskirts of Waltham, commands a view of the valley of the Charles River as it winds its course to Boston ten miles away. The rugged battlements of the Norman-Gothic group of University buildings, erected during the past ten years,

rise from a high ledge of rock, and the silhouette of their towers and parapets presents the aspect of a medieval castle. The administrative offices and library of the University, as well as the classrooms and laboratories of the College of Arts and Sciences, the School of Medicine, and the School of Veterinary Medicine, and the extensive stables and barns of the department of Animal Husbandry, are situated on the Waltham campus.

The Back Bay Building, located at 415 Newbury Street, in the heart of the professional district of up-town Boston, houses the classrooms, clinics, and laboratories of the School of Podiatry and of the School of Pharmacy. It also contains an auditorium, offices, a branch of the University library, and a spacious gymnasium with a basketball floor and an indoor running track.

Across the river in Cambridge is located the Middlesex Hospital, which is affiliated for teaching purposes with the School of Medicine. Seating arrangements in its modern surgical amphitheater provide space for large numbers of medical students to witness operations or other demonstrations.

Student Accommodations

The present building plans of Middlesex University call for the early construction of dormitories and dining halls on the Waltham Campus. At the present time students find satisfactory living quarters within walking distance of the classrooms. Room and board may be secured with private families at an average weekly cost of \$10.00, and there are a number of conveniently located restaurants. The University maintains a list of approved rooming houses.

The first student housing unit, a group of ten colonial bungalows, is expected to be ready for occupancy before the beginning of the school year, September, 1940. Each house will accommodate six students at a yearly charge of \$100.00 to \$125.00

apiece. Students will provide their own linen and bedding. The dormitories will be furnished, heated, lighted, and maid service will be provided, by the University. A limited number of garages will also be available. There will be one or more faculty residences in each group of student bungalows, and proper discipline will be enforced.

Smoking rooms, reading rooms, and a locker building are maintained for the convenience of students, and there are over 100 parking spaces on the campus for students who travel by automobile. Students who come to Waltham to the medical school from other states have little need of automobiles, particularly during the pre-clinical years in which all of the work is on the Waltham campus. The Massachusetts law requires that non-residents who bring their cars with them for the school term must conform with the local requirement that all automobiles be covered by liability insurance.

Scholarships, Student-Aid, and Awards

Middlesex University has no scholarship endowment, but individual gifts make available each year a limited number of scholarships covering in full or in part tuition in any department of the University. An annual award to a deserving student is donated by Dr. Hugh Beaton, a medical graduate of Middlesex University, practicing in Texas. Applicants for these scholarships must have very high scholastic standing and must be in actual need of financial assistance. Continuance of the scholarship from one year to another depends upon the recipient's moral, social, and scholastic qualifications. All scholarship applicants must have a personal interview with the President and with the Dean of the School of Medicine.

There are also available a limited number of service scholarships covering the cost of tuition. Recipients of these scholarships must have proper qualifications to serve as laboratory assistants or otherwise.

Middlesex University has participated for several years in the federal student aid program of the National Youth Administration. The purpose of this program is to provide employment of a socially useful nature for students who would otherwise be financially unable to continue their education. Students appointed to these positions are assigned to work under the supervision of various faculty members and are paid from \$10.00 to \$20.00 a month by the National Youth Administration. Middlesex University had a quota of 27 federal student aid positions during the school year 1939-1940.

The Civil Aeronautics Authority of the United States government also assigned this year to Middlesex University a quota under its civilian pilot training program. Medical students are thus enabled, at government expense, to qualify for a pilot's license. To be eligible for federal student aid or for the government-sponsored flying course, students must be under 25 years of age.

The Molly Pearlstein Award in Bacteriology, an annual prize of a gold key and \$25.00, is given to the student achieving the highest scholarship in bacteriology, upon the designation of the members of the faculty in that department.

Requirements for Admission

THE School of Medicine is co-educational, and the course leading to the degree of Doctor of Medicine is open on equal terms to both men and women. The selection of students is based upon merit and priority of date of application. Matters of race, religion, social position, and geographical distribution, are not taken into consideration in determining whether or not an applicant shall be admitted to the study of medicine.

The Committee on Admissions requires of all candidates satisfactory evidence that they have passed sufficient courses to fulfill the academic requirements for admission, and that their general qualifications are of a character fitting them for preparation to enter into the profession of medicine. No applicant is finally accepted until all of his educational records and character references have been properly verified, and until he has had a personal interview.

The School of Medicine restricts admission of candidates to those who have had at least two years of premedical work in an approved college, including courses in physics, chemistry, and biology. To satisfy this minimum requirement, the applicant must have college credits for at least a year's work in inorganic chemistry, in physics, in biology, and in organic chemistry. The courses in inorganic and organic chemistry should each consist of eight semester hours, half of which should be laboratory work. The course in physics should be of not less than eight semester hours, including two of laboratory work. The course in biology should cover a minimum of eight semester hours, half of which should be devoted to laboratory work. If a candidate presents only one year's work in biology, at least one-half of that year must have been devoted to zoology. It is urgently recommended, however, that an additional four to eight semester hours of comparative anatomy be included in the premedical qualifications. Sufficient other college credits to make up at least one-half the requirement for a baccalaureate degree must be presented. These credits may be in cultural subjects, but should include courses in English, and French or German.

The requirements for admission to the School of Medicine will be increased to a minimum of three college years, beginning with the class that enters in September, 1943.

Candidates for admission are required to make application upon blanks which may be obtained from the office of the Registrar at the Waltham Campus. All questions contained in the application blank must be answered in full, and the applicant must file a recent unmounted photograph. The application must be submitted accompanied by a verification fee of ten dollars. The Committee on Admissions reserves the right to refuse admission to any applicant without stating any reason for its action, since the number that may be enrolled is limited. Credentials and photographs which are filed by candidates for admission become the property of the college, and are kept permanently in the files.

Admission to Advanced Standing

EACH year there are a number of vacancies in the second, third, and fourth year classes available for transfers from other medical schools. Applicants for advanced standing must present evidence of the successful completion of one or more years of

instruction in an approved medical school with equal entrance requirements. No credit or advanced standing may be given for partially completed school years, or for years in which an applicant was unsuccessful in passing all the courses of the curriculum. In exceptional cases, however, an applicant who has been in attendance at some other medical school during the first semester of a given year may be admitted to the second semester of the same calendar year at this School.

All applicants for advanced standing must have been entitled to an honorable dismissal from the medical school previously attended. No advanced standing may be granted on credits from schools of osteopathy, dentistry, or from other than approved medical schools.

A candidate admitted to advanced standing must spend at least one year in the School, completing the regular fourth or last year of study before the degree is conferred. Before admission to such fourth year, the candidate seeking admission to advanced standing must fulfill all the conditions required of candidates for admission to the fourth year who have taken the uninterrupted course in this School.

Admission as a Special Student

Applicants whose qualifications are considered acceptable may be admitted as special students in specific courses of the medical curriculum. Special students however, will not be accepted as candidates for a degree.

Admission to Post-Graduate Courses

Graduates in medicine will be admitted to post-graduate courses of a didactic and clinical nature, which are offered by the School of Medicine in affiliation with the Middlesex Hospital. Such courses are not part of the curriculum leading to the degree of Doctor of Medicine, but are intended for physicians who are seeking instruction in the specialized fields of the profession.

Examinations and Promotion

ADMISSION to the School is for one year only, and the Trustees reserve the right to dismiss a student at any time, or to refuse readmission or promotion to any student.

The medical course extends over a period of four years, and the students are divided into four classes. Promotion from one class to another is based upon the satisfactory completion of the work of each year. A student will not be admitted to the final examinations in any course unless his class record, attendance, and laboratory work in that subject are satisfactory, and all of these elements will be considered in the determination of his final grade. Marks are given in all courses on a percentage basis, and a grade of seventy-five per cent is required to pass the course.

A student will not be allowed the privilege of final examinations, or be given his final grades in any course, until he has satisfied all of his financial obligations to the School.

The Administrative Officers of the School and members of the Faculty, review the work of the student at the end of the first, second, and third years of the course. It is within the province of the Administrative Officers and of the Faculty to decide whether a student shall be promoted to the next class, shall be permitted to take further instruction in the Summer Session and examinations for the removal of conditions in September, shall be required to repeat the year's work, or shall be denied further registration in the School by reason of unsatisfactory scholarship.

In order to be promoted to the Third-Year Class, a student must have successfully passed all of the examinations in the work of the First Year, and no student shall be eligible for promotion to the Fourth-Year Class who has failed to pass satisfactorily in all the subjects of the previous years.

Students who fail to receive passing grades in the final examinations in June may, if their grades justify further consideration, be given an opportunity to enroll in the Summer Session for further instruction in the subjects failed, and to take examinations for the removal of their conditions during the scheduled re-examination period in September before the opening of the school year. A fee of five dollars is charged for every such re-examination. The Administrative Officers and Faculty may permit re-examination in certain instances, and in courses that do not include laboratory work, without requiring the conditioned student to enroll for further instruction in preparation for such examinations. Students who are eligible for re-examinations must make written application at least two weeks before the examina-

tions are scheduled, and remit the required fee of five dollars for each examination.

The mere attainment of passing grades does not insure promotion. The continuance in good standing of any student is also contingent upon his faithful adherence to the rules and regulations of the School and of affiliated institutions, as well as his observance in extra-curricular activities of a moral standard appropriate to one aspiring to the medical profession.

Any student who voluntarily withdraws from the School for proper reasons forfeits his standing, but may apply for readmission in a subsequent year. If not too long a time has elapsed, and if changes in the rules of promotion or in the curriculum do not render such an admission impractical, his application should receive favorable consideration.

Discipline and Dismissal

The University reserves the right to dismiss at any time a student whose deportment or scholarship is unsatisfactory, and to refund a proportional part of the current tuition fee he has paid. Admission to the University is in all cases for one year only, and readmission may be denied without explanation.

Graduation and Degrees

CANDIDATES for the degree of *Doctor of Medicine* must possess the following qualifications:

1. The candidate must be at least twenty-one years of age and of good moral character.
2. The candidate must have fulfilled all of the requirements for admission to the School of Medicine; and he must have completed four full years of not less than thirty-two weeks in each year in an approved Medical School, of which one year must be spent in the regular Fourth-Year Class of this School.
3. The candidate must have obtained a passing grade in each subject of the curriculum, and a satisfactory record of laboratory, clinical, and maternity work.
4. The candidate must have filed satisfactory means of permanent identification, including a recent photograph.

5. The candidate must have satisfied all his financial obligations to the School, including the Graduation Fee of twenty-five dollars.

6. The candidate must have satisfied the Faculty and Trustees that he has attained proficiency in Medicine, Surgery, and Obstetrics, and that he has the mental and moral qualifications essential to the successful practice of medicine.

The degree of Doctor of Medicine *cum laude* or *magna cum laude* may be given to students of highest rating in the Fourth Year Class, on recommendation of the Faculty.

Fees and Expenses

THE cost of operating a medical school is very high. It is the policy of Middlesex University to charge as low a tuition fee as is consistent with the maintenance of proper educational standards.

The requirements of medical education are such that only a limited amount of outside work can be done by a student without seriously endangering his health or scholastic standing. For this reason prospective students are urged to postpone their matriculation until they are reasonably sure of their ability to meet the expenses of at least the first year of the medical course. If a student is obliged to drop out of school before the completion of the four-year course in order to earn sufficient funds for the continuance of his education, he may apply for a leave of absence, and every effort will be made to make a place for him, should he make application for readmission within a reasonable time.

Fees are payable only by postal money order, certified check, express money order, and telegraph order. Remittances must be made by mail, and addressed to Middlesex University, Box 310, Waltham, Massachusetts.

The verification fee of ten dollars is payable by all new students and should accompany the filing of the application blank. This fee is not refundable under any circumstances, since each application involves secretarial work and receives the careful attention of the administrative staff. The verification fee is payable only once, and may be credited to the student's account, should he withdraw his application and then re-apply in a subsequent year.

The matriculation fee of twenty-five dollars is payable by each candidate for admission or re-admission to the School, when he is notified that his application has been acted upon favorably by the Committee on Admissions. No place will be reserved in a class until the accepted applicant has paid this matriculation fee. This fee is payable annually and is not refundable. This fee is to reserve a place for the matriculant, and does not constitute part of the tuition.

The tuition fee of \$410 is charged for each year of instruction in the School of Medicine. This fee is payable in three installments on the dates indicated on the University Calendar. The first installment is \$135, the second \$135, and the third \$140. The tuition fee includes all laboratory charges except breakage, damage, and loss of apparatus. It is not subject to refund.

A locker fee of \$1.00 is payable with the first installment of the tuition. Seventy-five cents is returnable upon surrender of the key at the end of the term.

Any student whose installment of indebtedness to the School remains unpaid on the date fixed for final payment is deprived of the privileges of the School until he is reinstated. Reinstatement is obtained only by consent of the Board of Trustees, after payment of all indebtedness and a reinstatement fee of ten dollars. This charge of ten dollars is also payable, in the form of a late-registration fee, by all students who may be permitted to enroll in the School after the date set for payment of the first installment of the tuition.

The graduation fee of twenty-five dollars is payable by all successful candidates for the degree of Doctor of Medicine, upon notification by the Bursar.

An examination fee of five dollars is charged for the first re-examination in any subject failed. Any subsequent or special examination, except in the case of illness, is subject to a charge of ten dollars.

A student may obtain one transcript of his scholastic record without charge. A clerical fee of one dollar is required for all additional transcripts.

First and second year students are required to possess satisfactory microscopes, fitted with low, high power, and oil-immersion

objectives. The University has for sale a limited number of adequate microscopes at prices ranging from \$95. to \$115. each. New instruments cost about \$150. Microscope lockers are available, but the University assumes no responsibility for the safety of instruments stored in any of its buildings.

The expenses for text-books and other equipment for the session 1939-1940 were as follows:

First-Year-Class . .	\$105.00	Third-Year-Class . .	\$85.00
Second-Year-Class . .	60.00	Fourth-Year-Class . .	20.00

The amount to be charged for books and equipment for the session 1940-1941 will not be announced until after the Committee on Curriculum has acted in July. Students are required to make a deposit to cover the cost of this material two months before the opening of the school year, so that their equipment and books may be purchased for them and delivered during the first days of the session.

The equipment is standard, and includes sphygmomanometers, haemocytometers, haemometers, stethoscopes, and certain other instruments.

Attendance

Attendance during all class and laboratory exercises is required. Students who are absent, for any considerable time, on account of illness, or for other unavoidable reason, must present medical certificates or other satisfactory evidence in justification of their absence. A routine medical examination of each member of the entering class will be made at the beginning of the academic year.

Library and Reading Room

THE Library of the School of Medicine is situated on the Waltham campus. It contains a collection of some 4,000 medical volumes, including a large number of standard modern text books. Substantial additions to the Library are being made annually. Current and past copies of the leading medical periodicals and clinical abstracts are on file. The Library is open during the school session, and a Librarian is in charge.

The Reading Room, a long one-story building which forms the western wall of the medical quadrangle, contains individual booths for study. It is well supplied with medical periodicals, as well as with a selection of the better general magazines and newspapers.

The Boston Medical Library, No. 8 The Fenway, is situated within four blocks of the Back Bay Building, and is open to both the Faculty and medical students. Founded in 1875, it contains the largest collection of medical books and periodicals to be found in New England, including over 160,000 bound volumes, over 100,000 pamphlets and reprints, and some 900 current periodicals. Students also have free access to the great resources of the Boston Public Library, which is also in the Back Bay section, and to the Waltham Public Library, not far from the medical campus.

Laboratories and Collections

The laboratories of the School of Medicine occupy four buildings on the Waltham campus. They are spacious and unusually well lighted, and are supplied with gas, water, electricity, and refrigeration. There are smaller rooms for special work, apparatus rooms, and departmental offices. Several laboratories are equipped with paraffin ovens, incubators, microtomes, and a full line of glassware, chemicals, and other accessories. There are available a dark room and photographic equipment with microprojection lanterns, motion picture projectors, and photomicrographic apparatus. In the anatomical museum there are assembled and displayed collections of various bones. In the pathological museum preserved specimens are available for the gross study of pathology.

One large class-room, on the fifth floor of the South-East Tower, is reserved for visual education, and is used for the exhibition of scientific motion pictures, lectures illustrated by stereopticon slides, and the study of histological and pathological specimens by microprojection.

The following medical films were exhibited during the past school year:

Fracture of the Skull
Pearly Tumor of Cerebello
Spinal Cord Injury

Cesarean Section
Varicose Veins and Ulcers
Surgery of the Extremities

Cataract Extraction	Pathology of the Breast
Full Thickness Skin Graft	Uterine Fibroids
Esophageal Diverticulum	Absorbable Sutures
Subtotal Thyroidectomy	Suture Technic
Thyroidectomy	Cancer of the Cervix
Appendectomy	Malaria
Cholecystectomy	Renal and Cardiac Edema
Hernioplasty and Lipectomy	Blood Transfusion
Radical Mastectomy	Conduct of Normal Labor
Peptic Ulcers	Injuries of the Newborn
Hemorrhoidectomy	Episiotomy and Repair
Montgomery-Simpson Suspension	Treatment of Asphyxia Neonatorum
Comparative Physiology of Labor	

Clinical Instruction

Middlesex University has affiliations for clinical teaching with a number of state, municipal, and private hospitals throughout Massachusetts. Senior students are assigned to these hospitals on a rotating schedule so as to obtain a well-rounded clinical training, in preparation for the internship to which each student is recommended immediately upon graduation from the School of Medicine.

Students receive clinical instruction at the Captain John Adams Hospital, of the Massachusetts Soldiers' Home, a state institution; most of the resident members of the hospital staff are members of the faculty of the School of Medicine. Other institutions that receive students as assistants in medicine include the Burke Memorial Hospital, a municipal institution in Lawrence; the Forest Hills General Hospital, Boston; the Irving Hospital, Framingham; the Central Hospital, Somerville; the Union Hospital, New Bedford; the Woonsocket Hospital, Woonsocket, R. I.; the Bellevue Hospital, Brookline; the Middlesex Hospital, Cambridge; the Phaneuf Hospital, Brockton; the Freeman L. Lowell Memorial Hospital and Dispensary, Boston; and the Revere General Hospital, Revere.

The medical students are privileged to attend many lectures, demonstrations, and special clinics, conducted in the auditoriums of many of the great hospitals and scientific institutes of greater Boston, which is the medical center of all New England; and are taken on clinical visits to the state hospitals for the treatment of mental, tubercular and cancer patients.

Courses of Instruction

Schedule of Hours

THE announcement of courses consists of a condensed statement of the general plan of instruction in each department, and a description of the didactic and practical work required during the four-year medical course.

The curriculum in medicine covers approximately 4,000 hours of instruction, and is designed to comply with the requirements of the Approving Authority on Medical Education of the Commonwealth of Massachusetts, and the recommendations of the associated American Medical Colleges.

The curriculum is divided into nine fields:

	No. of Hours
1. Anatomy, including Histology and Embryology..	640
2. Physiology	272
3. Biochemistry	256
4. Pharmacology	150
5. Pathology, Bacteriology and Immunology.....	610
6. General Medicine, including Pediatrics, Neurology and Psychiatry, Dermatology and Syphilis, and Roentgenology	1,000
7. General Surgery, including Orthopedic Surgery, Urology, Ophthalmology, Otolaryngology.....	640
8. Obstetrics and Gynecology	225
9. Public Health and Preventive Medicine, and Medical Jurisprudence	180
Electives or Additional Clinics	100
Total	4,073

Anatomy

The courses of instruction in the Department of Anatomy constitute the ground-work for medical study and practice, and

include Gross Human Anatomy, Histology, Embryology, and Neuro-anatomy. Laboratory facilities and material are available not only for the required correlated courses in this field but also for advanced work and research.

HISTOLOGY.—Morphology, Biology, and Physiology of the cell. Histology and functions of the tissues and organs, with reference to experimental medicine and pathological anatomy. Laboratory work includes the study of stained slides of normal human organs and tissues.

EMBRYOLOGY.—The fundamental facts of human development are presented in the form of laboratory work, gross and microscopical, accompanied by lectures, illustrated by stereopticon projection, on the development of germ layers, organ systems, and the histogenesis of some tissues. Sections of embryos and gross specimens of human embryos are exhibited and studied. This course is closely correlated with the lectures and laboratory work in histology. First year, first semester: 80 lectures and recitations, 160 laboratory hours.

GROSS ANATOMY.—Each student is responsible for the dissection of one half of the human body. The entire class dissects similar parts simultaneously. Loan collections of various bones are available for the study of the skeleton. The practical applications of Anatomy are stressed in the lectures. First year, first semester: Lectures, demonstrations, quizzes, and laboratory; 320 hours.

NEUROANATOMY.—Lectures, laboratory, and microscopic work with prepared slides. Dissection of the human brain and spinal cord. The sympathetic nervous system and the organs of special sense. The lectures are coordinated with the course in Physiology. First year, second semester: 16 lectures and 32 laboratory hours.

APPLIED ANATOMY.—This is a fourth-year course consisting principally of work in the dissecting room, to include a review of gross anatomy and an application of that study to clinical subjects and surgery. When sufficient anatomical material is available, opportunity is given in this course for research in gross human anatomy by selected under-graduates or by medical graduates.

Physiology

The lectures are supplemented by the study of textbooks and periodicals, and deal with the physiology of muscle, nerve reflexes, the central nervous system, the autonomic system, the blood vascular system, respiration, digestion, secretion, absorption, metabolism, the sense organs, and reproduction. The laboratory emphasizes mammalian experimentation, general technic, gas analysis, and metabolism. First year, second semester: 80 lectures and conferences, 192 laboratory hours.

Biochemistry

A study of the chemical substances and reactions involved in the physiological processes of the human body. The laboratory work includes a study of the chemical constituents of living matter and the chemical properties of carbohydrates, proteins, and fats, aspects of nutrition and the action of digestive enzymes, and elementary instruction in the methods of biochemical research. First year, second semester: 64 lectures and recitations, 192 laboratory hours.

Bacteriology and Public Health

BACTERIOLOGY.—This course consists of a survey of the general features of diseases caused by bacteria and related organisms. The pathogenesis of infectious diseases is emphasized. It consists of lectures, demonstrations, and laboratory instruction of procedures employed in microscopical, cultural, experimental, and immunological diagnosis of infections. The course is designed to familiarize the student with common pathogenic and non-pathogenic bacteria.

IMMUNOLOGY.—This course consists of lectures, demonstrations, and laboratory instruction of the application of immunological principles to diagnosis, prevention, and treatment of diseases. The principles of immunology, serology and allergy, are considered both theoretically and practically.

PUBLIC HEALTH.—The lectures in this course are closely correlated with the laboratory work in bacteriology and immunol-

ogy, in order to emphasize those aspects of infectious diseases which relate to problems of Public Health, Hygiene, and Preventive Medicine. The communicable diseases are discussed in connection with epidemiology, administrative control, and prevention. Organized public health activities as conducted by state, municipal, and county health agencies are demonstrated through field trips.

PARASITOLOGY AND TROPICAL MEDICINE.—Animal parasites amongst the protozoa, helminths, and arthropods, which are responsible for human diseases, are studied. The biology and physiology are discussed along with the pathological aspects, clinical diagnosis, and treatment of the diseases.

Pathology

GENERAL AND SPECIAL PATHOLOGY.—The course is designed to teach the fundamental principles of abnormal morphology, physiology, and chemistry, and consists of laboratory work, lectures, and demonstrations. The laboratory course in pathologic histology is based upon a selected collection of microscopic slides. Gross pathology is taught with fresh and museum specimens. The physiologic and anatomical changes which occur in cell tissues, organs, and systems are explained in the lectures, and the correlation between clinical and pathological findings are discussed in conferences. The student is trained in observing demonstrations of post-mortem and post-operative materials.

Clinical Pathological Conferences

Case histories are presented and autopsies and clinical findings are compared. Specimens are demonstrated and examined from the standpoint of differential diagnosis and treatment.

Pharmacology and Therapeutics

This course includes lectures and laboratory work in the related fields of Pharmacy, Pharmacology, Materia Medica, Therapeutics, and Toxicology. The physical and chemical properties and physiological actions of the more important drugs are discussed and

demonstrated by actual experimentation in the laboratory. Prescription writing is studied in the classroom, and the compounding of standard pharmaceutical preparations in the laboratory. The effects of poisons, and their identification in the stomach contents, tissues, and foods are discussed.

Medicine

Instruction in this department extends over three years of the medical course, and is designed to cover the principles of the practice of medicine and of clinical medicine. It begins in the second year with a discussion of symptomatology and physical diagnosis so presented as to acquaint the student with history taking, physical examination, and the interpretation of the clinical manifestations of disease.

During the third and fourth years of the course emphasis is shifted to the practical methods of clinical diagnosis in hospital clinics and dispensaries, where the student, through individual instruction, is taught to apply in practical work the knowledge gained from the classroom and text-books. Selected cases are demonstrated in the hospital amphitheatre. By the sub-division of the Fourth-Year Class into small sections, individual instruction in the various departments of medicine is facilitated, and direct contact with patients made possible.

Pediatrics

Instruction begins in the third year with a course of lectures, supplemented in the fourth year with clinical instruction and the amphitheatre presentation of cases. The course covers principles of infant feeding and the physiology of nutrition, the normal growth and development of children, as well as the diagnosis and treatment of the more common diseases of children, including those of a contagious nature. The preventive phase of pediatrics is emphasized.

Roentgenology

This course begins with a consideration of the fundamental principles of physics as applied to radiology and proceeds to a

study of the use of the X-ray in diagnosis and treatment. Practical instruction is given in the interpretation of findings on fluoroscopic screen and films. The appearance of normal structures and typical pathologic conditions are demonstrated in the classroom and by clinical observation in the X-ray Department of the hospital.

Dermatology and Syphilology

This course covers the etiology, symptoms, histopathology, diagnosis, and treatment of diseases of the skin, and includes a discussion of the methods of radium and roentgenray therapy. The clinical and laboratory procedures used in the treatment and diagnosis of syphilis are discussed and demonstrated.

Laboratory Diagnosis

This course deals with the significance and technique of the practical laboratory procedures which pertain to clinical diagnosis. It consists of lectures, demonstrations, and laboratory instruction in the examination of the blood, urine, sputum, stomach contents, feces, effusions, and spinal fluid.

Neurology and Psychiatry

The course in Neurology begins with a brief review of Neuro-Anatomy, and proceeds to a study of nervous diseases and neurological diagnosis with special reference to the relations of neuropathology and clinical neurology.

In Psychiatry the lectures cover the nature, cause, diagnosis, prognosis, and treatment of the various forms of mental disease. The commitment of the insane is discussed from the point of view of the medical practitioner. Clinical discussion, demonstration, and examination of the various types of mental and nervous disorders is conducted with the co-operation of the members of the staffs of various state hospitals for the insane.

Endocrinology

Histophysiology of the endocrine glands. Hormones, their physiology and pharmacology. Somato-psychic constitution in

relation with endocrinology. Problems in experimental endocrinology. Syndromes and diseases. Endocrinology in its relation to social and preventive medicine.

Medical Jurisprudence

This course deals with the relationship of medicine and the law, particularly stressing the legal principles which pertain to the practice of medicine, and the legal duties and obligations of a physician. In a series of thirty-two lectures the following subjects are discussed: Medical Licensure and Causes of Revocation, Expert Testimony and the Laws of Evidence, the Contractual Relationship between Physician and Patient, the Legal Obligations of a Physician, Civil and Criminal Malpractice, False Representations, Insanity as a Defense and as a Disability, Commitment, Crimes with a Medical Aspect, Industrial Accidents and Actions of Tort, Medical Legal Aspects of Birth and Death.

Surgery

Instruction in this department begins in the second year with a systematic course dealing with the principles of surgery. In the third and fourth years consideration is given to diseases of the bones and joints, tumors, hernia, and anesthesia. Lectures and assigned study are supplemented by clinical and amphitheatre demonstrations covering asepsis, antisepsis, sterilization of the operating room materials, pre-operative treatment of patients, surgery of wounds, treatment of fractures and dislocations, and the usual surgical operations of the head, neck, thorax and abdomen. Operative surgery on the cadaver, included in the course in applied anatomy, is correlated with instruction in this department.

Students have an opportunity of assisting in private operating rooms, and of receiving practical instruction in minor surgery in outpatient clinics.

Orthopedic Surgery

The effects of infection, traumatism, habitual overstrain, and functional insufficiency upon joint structures are studied in this

course, emphasis being placed upon pathology and upon the physical examination of normal and pathological joints. Treatment of diseases and deformities of the spine and extremities is discussed, and the application of casts, splints, and other methods of cure demonstrated.

The didactic lectures are supplemented by the clinical study of the more common orthopedic subjects, including deformities from infantile paralysis, arthritis, tuberculosis of the joints, osteomyelitis, and congenital deformities.

Ophthalmology

Starting with lectures in the third year, instruction in this course continues in the fourth-year clinics, with the class divided into teaching sections. Each student receives individual instruction in the use of the ophthalmoscope. External diseases of the eye and anomalies of the ocular muscles are covered in a practical way. The elements of the fitting of glasses are demonstrated and discussed.

Otology and Rhinolaryngology

The theoretical aspects of ear, nose, and throat diseases are considered in the third year, through lectures and demonstrations. The anatomical basis is covered by studying a large variety of gross specimens and slides. The physiological aspects are illustrated by demonstration of the experimental methods commonly employed.

In the fourth year, there is hospital instruction in examination, diagnosis, and treatment. The student learns the use of the otoscope, various methods of testing the hearing and labyrinthine function, and is given an opportunity to observe the more important operative procedures.

Obstetrics

Instruction in this department is given during the third and fourth years, and includes lectures, recitations, manikin exercises, laboratory courses, and practical work and observation in the amphitheatre, delivery room, and outpatient department.

Gynecology

Instruction is given by didactic lectures in the third year, and by clinical observation and demonstration in the fourth, in the general field of gynecological diseases, and the student is familiarized with the cause, diagnosis, and treatment of the more significant pathological conditions within the pelvis.

Medical Ethics and History

The purpose of this course is to outline the progress of medical science from the days of the alchemist and the midwife to modern times, emphasizing the biographies of those who have most significantly contributed to the rise of modern medical methods. Instruction is paralleled by assigned text-book study. The last few lectures deal with the ethical standards of the profession of medicine, and with the specific problems in ethics that arise in the practice of medicine.

Preprofessional Courses

The Premedical Course

MIDDLESEX COLLEGE offers a two-year premedical course designed to fulfill the requirements for admission to the School of Medicine, and the University reserves a place in the first-year class of the School of Medicine for those applicants who successfully complete the premedical course in the Junior College.

The Approving Authority on Medical and Premedical Education of the Commonwealth of Massachusetts, made an inspection of the facilities of the Junior College in 1939, and provisionally approved its premedical course for the ensuing school year. Under the terms of a recent amendment to the Massachusetts medical practice act, students entering medical school from 1941 on must have completed two years in a college approved for premedical instruction.

The premedical course is open only to high school graduates who have completed a college preparatory course with a "B" average in the principal subjects, and to alumni of Boston Latin School.

The two-year premedical course includes the following subjects:

<i>First Year</i>		<i>Second Year</i>	
<i>Subject</i>	<i>Semester Hours</i>	<i>Subject</i>	<i>Semester Hours</i>
English	6	English	4
Chemistry	8	Physics	8
Biology	6	Chemistry	8
Modern Language . . .	4	Biology	6
History	4	Modern Language . . .	4
Mathematics	2	Psychology	2
Government	2		

The purpose of this premedical course is to provide the student with a sufficient knowledge of the fundamental natural sciences to prepare him for medical study, and in addition, to afford him an introduction to the general field of cultural study. In a two-year course emphasis must be placed upon a study of the basic sciences, and the amount of time that may be devoted to courses of an academic and cultural nature is necessarily limited. The

premedical course includes 64 semester hours and covers an amount of instruction equivalent to more than one-half of the credit required for the baccalaureate degree.

The advance in the requirements for admission to the School of Medicine to three years of premedical college work, effective September 1943, will make it necessary for premedical students entering the College of Arts and Sciences after the school year of 1940-1941 to pursue a three-year course.

The Seven-Year Combined Premedical and Medical Course

The College of Arts and Sciences, in conjunction with the School of Medicine, offers a seven-year course leading to the degrees of Bachelor of Science and Doctor of Medicine. The first three years are spent in the College and are devoted to premedical and cultural study, and the degree of Bachelor of Science is conferred upon the successful completion of the first year of the four-year course in the School of Medicine.

The three-year premedical course includes the following subjects:

<i>First Year</i>		<i>Second Year</i>	
<i>Subject</i>	<i>Semester Hours</i>	<i>Subject</i>	<i>Semester Hours</i>
English	6	English	4
Chemistry	8	Physics	8
Biology	6	Chemistry	8
Modern Language	4	Modern Language	4
History	4	Biology	6
Mathematics	2	Psychology	2
Government	2		

Third Year

<i>Subject</i>	<i>Semester Hours</i>
English	4
Biology	6
Chemistry	6
Economics	4
Psychology	4
Mathematics	4

The catalogue of the Junior College contains complete information concerning the premedical courses.

GIFTS AND ENDOWMENT

Middlesex University is authorized by the Massachusetts Legislature to receive and hold donations, legacies, and bequests of real and personal property to an extent not to exceed five million dollars, and to use such property or the income therefrom for its general educational purposes.

The School of Medicine and the Junior College are now in immediate need of substantial endowment funds. The Trustees will be glad to receive specific gifts of books, equipment, or material for the use of any department of the University; and would be very grateful for any donation to the endowment of the University.

Bequests may be made in the following form:

I give to the Trustees of Middlesex University, an educational institution incorporated under the laws of the Commonwealth of Massachusetts, the sum of.....dollars, to be applied to the general purposes of the University.

MIDDLESEX UNIVERSITY

JUNIOR COLLEGE

Preprofessional Courses, Arts and Sciences



COLLEGE OF ARTS AND SCIENCES

A.B. and B.S. Degrees



SCHOOL OF MEDICINE, M.D. Degree

Two-year premedical requirement



SCHOOL OF VETERINARY MEDICINE, D.V.M. Degree

One-year preveterinary requirement



SCHOOL OF PODIATRY

Three-year Didactic and Clinical Course



SCHOOL OF PHARMACY

Two-year Comprehensive Course

WALTHAM — MASSACHUSETTS